#### VOLTAGE REGULATOR SEHAT SUTARDJA MP0400/CUST. NO: 23624 SHEET 1/11

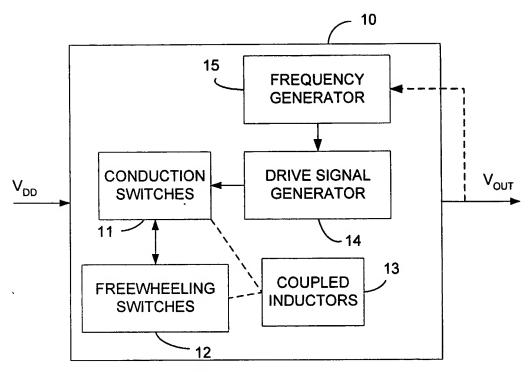


FIG. 1A

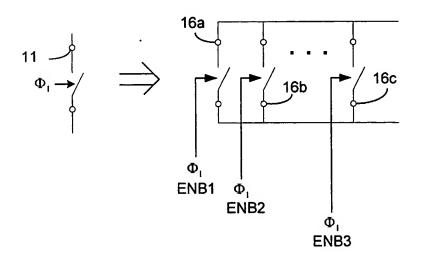
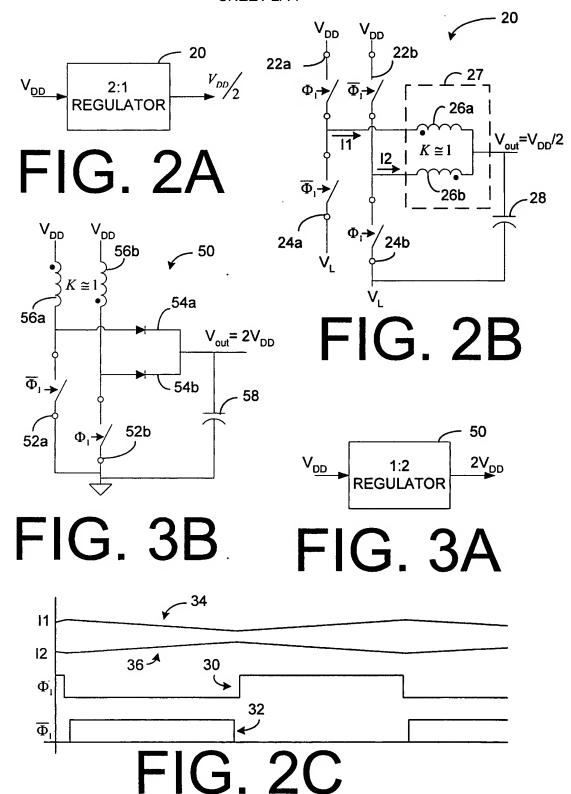
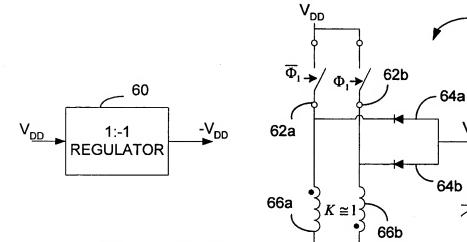


FIG. 1B

#### VOLTAGE REGULATOR SEHAT SUTARDJA MP0400/CUST. NO: 23624 SHEET 2/11



### VOLTAGE REGULATOR SEHAT SUTARDJA MP0400/CUST. NO: 23624 SHEET 3/11



# FIG. 4A

# FIG. 4B

60

 $V_{out} = -V_{DD}$ 

68

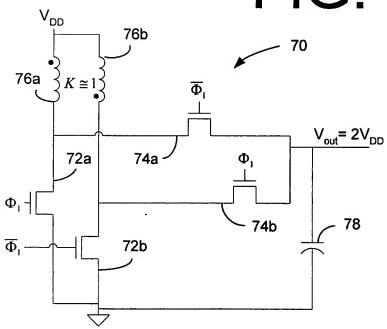


FIG. 5

#### VOLTAGE REGULATOR SEHAT SUTARDJA MP0400/CUST. NO: 23624 SHEET 4/11

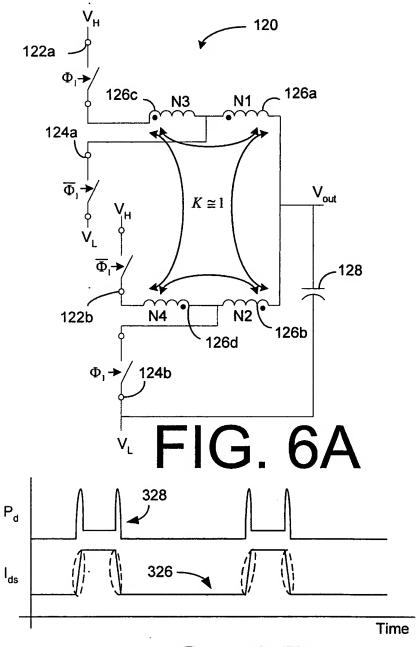
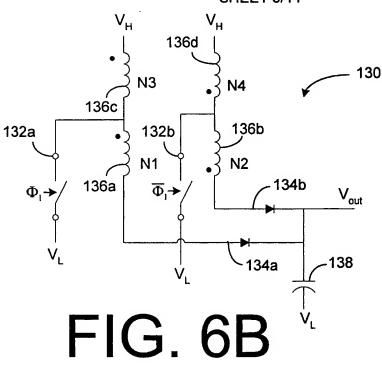
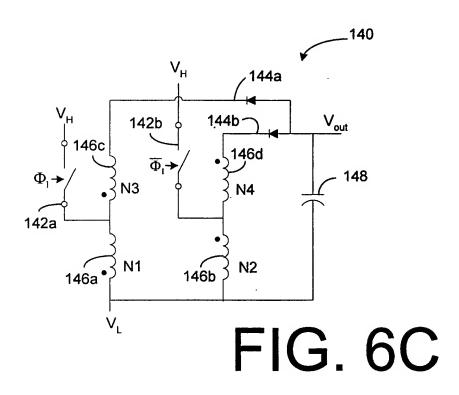


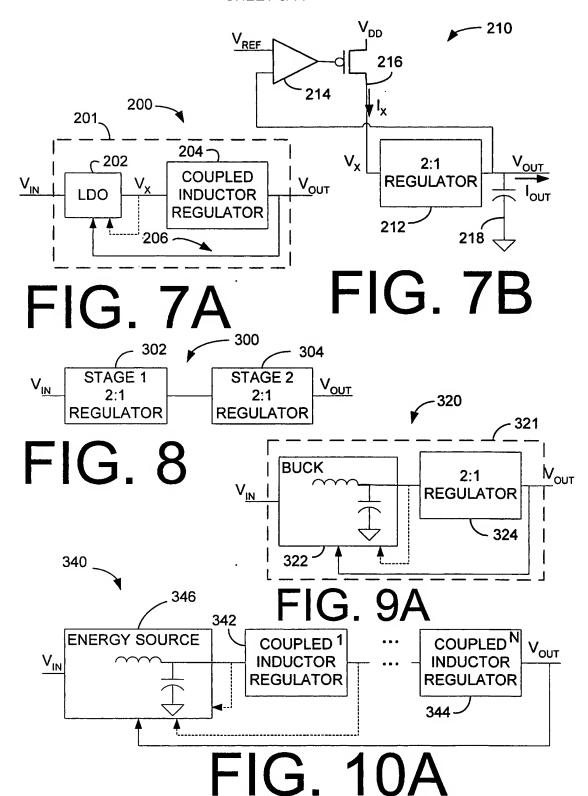
FIG. 9B

### VOLTAGE REGULATOR SEHAT SUTARDJA MP0400/CUST. NO: 23624 SHEET 5/11

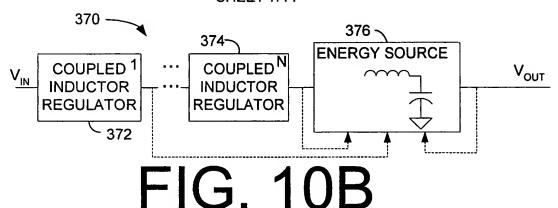




VOLTAGE REGULATOR SEHAT SUTARDJA MP0400/CUST. NO: 23624 SHEET 6/11



#### VOLTAGE REGULATOR SEHAT SUTARDJA MP0400/CUST. NO: 23624 SHEET 7/11



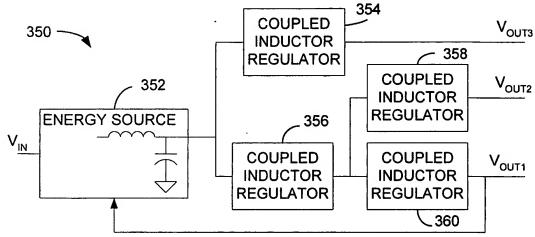


FIG. 11

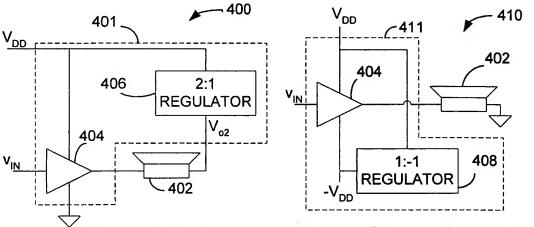
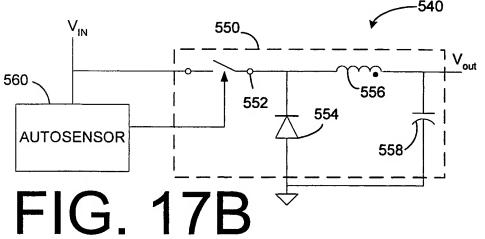
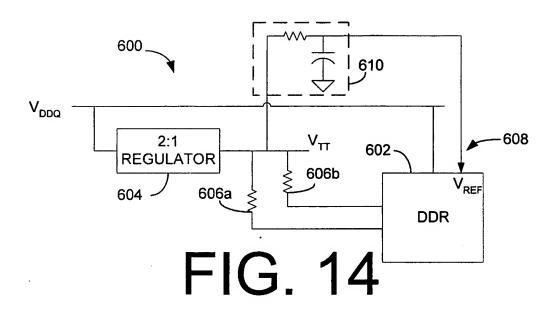


FIG. 12A FIG. 12B

#### **VOLTAGE REGULATOR** SEHAT SUTARDJA MP0400/CUST. NO: 23624 **SHEET 8/11** 500-- Lights **FIRST** - Air Conditioning LOADS - Fan 502 - Compressor 504 -- Engine 508 -506 -**Legacy Products** 2:1 **SECOND** - Stereo - Global Positioning System **REGULATOR LOADS** - Computer - Cigarette Chargers (Cell Phone) FIG. 13 520 510 $V_{IN}$ 522b 530 522a 526a **AUTOSENSOR** $\boldsymbol{V}_{\text{out}}$ 524b $K \cong 1$ - <u>Φ</u>,⊣ 526b Φ,→ <sup>′</sup>524b 528-**FIG. 17A** 540 $V_{IN}$ 550.



#### VOLTAGE REGULATOR SEHAT SUTARDJA MP0400/CUST. NO: 23624 SHEET 9/11



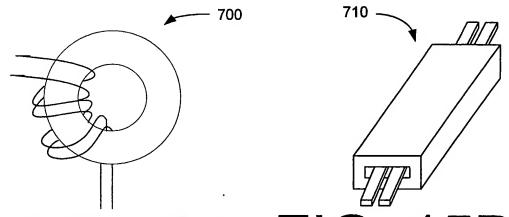
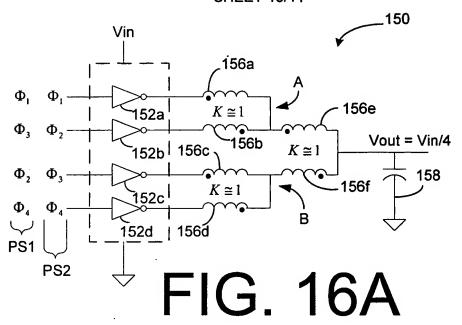


FIG. 15A FIG. 15B

#### VOLTAGE REGULATOR SEHAT SUTARDJA MP0400/CUST. NO: 23624 SHEET 10/11



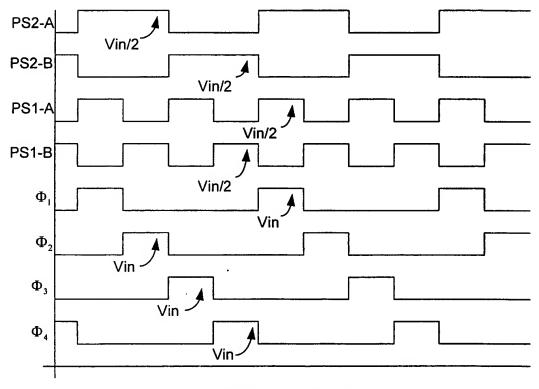


FIG. 16B

#### SEHAT SUTARDJA MP0400/CUST. NO: 23624 **SHEET 11/11** Vin 167 - 160 162 166 167 $| K \cong 1$ -166 167 $K \cong 1$ 166 166| 162 <u>-966'</u> 167 $|K \cong 1$ 166 -167 166 $K \cong 1$ 166 |Vout = Vin/(2N)|167 $K \cong 1$ 166 $K \cong 1$ 166 167 166 162 166 $K \cong 1$ 166~ <u>166</u> $\Phi_{2 \bullet (N-\overline{1})}$ <sup>167</sup> $K \cong 1$ $\Phi_{2*N}$ 166 | 167 STÄGE STAGE 1 STAGE 162 2 3 STAGE Ν

**VOLTAGE REGULATOR** 

FIG. 16C